

## Product datasheet for **TF310427**

### PIK3CB Human shRNA Plasmid Kit (Locus ID 5291)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	PIK3CB Human shRNA Plasmid Kit (Locus ID 5291)
Locus ID:	5291
Synonyms:	P110BETA; PI3K; PI3KBETA; PIK3C1
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PIK3CB - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 5291). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_001256045</a> , <a href="#">NM_006219</a> , <a href="#">NM_006219.1</a> , <a href="#">NM_006219.2</a> , <a href="#">NM_001256045.1</a> , <a href="#">BC003393</a> , <a href="#">BC022049</a> , <a href="#">BC033948</a> , <a href="#">BC035432</a> , <a href="#">BC045790</a> , <a href="#">BC114432</a> , <a href="#">NM_006219.3</a>
UniProt ID:	<a href="#">P42338</a>
Summary:	This gene encodes an isoform of the catalytic subunit of phosphoinositide 3-kinase (PI3K). These kinases are important in signaling pathways involving receptors on the outer membrane of eukaryotic cells and are named for their catalytic subunit. The encoded protein is the catalytic subunit for PI3Kbeta (PI3KB). PI3KB has been shown to be part of the activation pathway in neutrophils which have bound immune complexes at sites of injury or infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).